



#6

<110> Karunanandaa, Balasulojini
Yu, Jaehyuk
Kishore, Ganesh M.

<120> NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED
WITH STEROL SYNTHESIS AND METABOLISM

<130> 16516.075

<140> US 09/614,221

<141> 2000-07-11

<150> US 60/142,981

<151> 1999-07-12

<160> 626

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<213> Glycine max

<220>

<221> CDS

<222> (24) ... (1100)

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1 5 10

atg gag tac tct tac ctg tta gat atg gcg gac aag act gag gat cca 101
Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro
15 20 25

tac atg aga cta gta tat gct tca tca ttc ttt ata tct gtc tac tat 149
Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr
30 35 40

gcc tat caa cga acg tgg aag cca ttc aat cca att ctt ggt gag act 197
Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr
45 50 55

tat gaa atg gtt aac cat ggt ggc att aca ttt ata tca gag cag gtc 245
Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile Ser Glu Gln Val
60 65 70

agt cat cac cct cca atg agt gct ggg cat gct gaa act gaa cat ttc 293
Ser His His Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe
75 80 85 90

act tat gat gtt aca tca aaa ttg aaa acc aaa ttt ctc ggc aac tca 341
Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser
95 100 105

gtt gat gta tat cct gtt gga aga acg cgt gtt acc ctc aaa aga gat Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr Leu Lys Arg Asp 110 115 120	389
ggc gtg gtc ctt gat ttg gtg cct cct cct aca aaa gtt agc aac ttg Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys Val Ser Asn Leu 125 130 135	437
att ttt gga cga act tgg att gat tca cca gga gag atg atc ctg aca Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu Met Ile Leu Thr 140 145 150	485
aat ctg act aca ggg gac aaa gtg gtg ctg tat ttt caa cca tgt ggc Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe Gln Pro Cys Gly 155 160 165 170	533
tgg ttt gga tat gaa gtg gat ggg tac gtg tat aat tct gct gac gag Trp Phe Gly Tyr Glu Val Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu 175 180 185	581
cct aag ata ctg atg act gga aaa tgg aat gag gct atg aat tat caa Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln 190 195 200	629
gtt tgt gac tca gag gga gaa cca ctt cca ggc act gag ttg aaa gag Val Cys Asp Ser Glu Gly Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu 205 210 215	677
att tgg aga gtt gct gat acc ccg aag aag gac aag ttc cag tac acg Ile Trp Arg Val Ala Asp Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr 220 225 230	725
cat ttt gca cac aag att aac agc ttt gac act gct ccc aag aag ttg His Phe Ala His Lys Ile Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu 235 240 245 250	773
ttg gca tct gac tct cgt cta cgt cct gat aga atg gcc ctt gag aag Leu Ala Ser Asp Ser Arg Leu Arg Pro Asp Arg Met Ala Leu Glu Lys 255 260 265	821
ggc gac cta tcc aca tct ggt tat gag aag agc agt ttg gag gag agg Gly Asp Leu Ser Thr Ser Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg 270 275 280	869
caa aga gct gag aag aga aac cga gag gcc aag ggc cat aag ttc act Gln Arg Ala Glu Lys Arg Asn Arg Glu Ala Lys Gly His Lys Phe Thr 285 290 295	917
cct aga tgg ttt gat tta aca gat gaa gta act cct acc cct tgg ggt Pro Arg Trp Phe Asp Leu Thr Asp Glu Val Thr Pro Thr Pro Trp Gly 300 305 310	965
gac ttg gaa gtt tac caa tac aac ggt aaa tat acc caa cat tgt gct Asp Leu Glu Val Tyr Gln Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala 315 320 325 330	1013
gcc gtt gat agt tct gag tgc att gaa gtg cct gac atc aga cca gaa	1061

Ala Val Asp Ser Ser Glu Cys Ile Glu Val Pro Asp Ile Arg Pro Glu
335 340 345

ttc aac cct tgg caa tat gat aat ttg gat gct gaa tag tgagcatcct 1110
Phe Asn Pro Trp Gln Tyr Asp Asn Leu Asp Ala Glu
350 355

tgtggaattc tttctatttt ttttaaatat cattttgtta ttaagtttgt aatgtaatct 1170

tgattggaat gcttgaaatt tggttttgtt tttgggttgt tttatcactg tagtatttga 1230

ttaattaata gtagctatgt tagttcatca gttcactttg catggataaa tgctagtagg 1290

gaaattaaag ttatcttcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggc 1350

ggccgccg 1358

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Met Cys Asn Asn Gly Gln Ser Pro Leu Asp Arg Phe Ile
1 5 10

tct gtg gta gca tgg tgc ata tct acc act cgc cct gtg act ttt ggt 159
Ser Val Val Ala Trp Cys Ile Ser Thr Thr Arg Pro Val Thr Phe Gly
15 20 25

gtt gct cct tat aat ccc att ctt ggt gag aca cac cat gtt tca agg 207
Val Ala Pro Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg
30 35 40 45

gga aat ctt aat gtg tta ttg gag cag att tca cat cac cct cca gta 255
Gly Asn Leu Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val
50 55 60

act gct ctc cat gca aca gat gag aag gaa aac att gaa atg tta tgg 303
Thr Ala Leu His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp
65 70 75

tgc cag cga cct gat cca aag ttt aat ggc aca tca gtt gaa gct aaa 351
Cys Gln Arg Pro Asp Pro Lys Phe Asn Gly Thr Ser Val Glu Ala Lys
80 85 90

gtg cat gga ata cgc cag ttg aag ctc cta aat cat ggt gaa aca tat 399
Val His Gly Ile Arg Gln Leu Lys Leu Leu Asn His Gly Glu Thr Tyr

95	100	105	
gaa atg aat tgt cct cgc ctt tta ctt aga att ctt cca gtt cct ggt			447
Glu Met Asn Cys Pro Arg Leu Leu Leu Arg Ile Leu Pro Val Pro Gly			
110	115	120	125
gct gat tgg gct ggt aca gtt aat ata cgg tgc cta gag aca ggt cta			495
Ala Asp Trp Ala Gly Thr Val Asn Ile Arg Cys Leu Glu Thr Gly Leu			
	130	135	140
gta gct gaa tta tcc tac aga tca agt tct ttt cta gga att ggg ggg			543
Val Ala Glu Leu Ser Tyr Arg Ser Ser Ser Phe Leu Gly Ile Gly Gly			
	145	150	155
aat cat aga gtg atc aaa ggg aag atc ctt gac tct tca tca ttg aaa			591
Asn His Arg Val Ile Lys Gly Lys Ile Leu Asp Ser Ser Ser Leu Lys			
	160	165	170
gtt cta tat gaa gtt gat ggt cat tgg gat agg acc gta aaa gtg aag			639
Val Leu Tyr Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys			
	175	180	185
gac aca aat aat ggg aaa gta aga gtg ata tat gat gca aag gaa gtt			687
Asp Thr Asn Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val			
190	195	200	205
atg tca ggt ctc gaa act cct ata ctc aag gac ata gag ggt gtg tgg			735
Met Ser Gly Leu Glu Thr Pro Ile Leu Lys Asp Ile Glu Gly Val Trp			
	210	215	220
caa aca gaa tca gct cat gtt tgg ggt gaa tta aac caa gcc att gtg			783
Gln Thr Glu Ser Ala His Val Trp Gly Glu Leu Asn Gln Ala Ile Val			
	225	230	235
agc aaa gac tgg gag aaa gca aga gaa gca aag cta aaa gtt gag gaa			831
Ser Lys Asp Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu			
	240	245	250
aga caa agg gag ctt gtg aga gaa aga gaa tca aaa gga gaa aca tgg			879
Arg Gln Arg Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp			
	255	260	265
att tct aag cat ttt gta gtt tct aac aac aaa gaa ggg tgg caa tgt			927
Ile Ser Lys His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys			
270	275	280	285
tca cct att cat aag agt gta cct gcg gcc ccc atc aca gcc cta taa			975
Ser Pro Ile His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu			
	290	295	300
ttgttgtcac tgtcaagtag tgtaaagcat taaagtacat tttagaagag aatgttcata			1035
aaaaaatttta atggttgaaa ttttgacaac aatgaagtat ataacaaaat ttaaaattag			1095
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tct tac ctg tta gat atg gcg gac aag act gag gat cca tac atg aga	100
Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro Tyr Met Arg	
10 15 20	
cta gta tat gct tca tca ttc ttt ata tct gtc tac tat gcc tat caa	148
Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr Ala Tyr Gln	
25 30 35	
cga acg tgg aag cca ttc aat cca att ctt ggt gag act tat gaa atg	196
Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr Tyr Glu Met	
40 45 50 55	
gtt aac cat ggt ggc att aca ttt ata tca gag cag gtc agt cat cac	244
Val Asn His Gly Gly Ile Thr Phe Ile Ser Glu Gln Val Ser His His	
60 65 70	
cct cca atg agt gct ggg cat gct gaa act gaa cat ttc act tat gat	292
Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe Thr Tyr Asp	
75 80 85	
gtt aca tca aaa ttg aaa acc aaa ttt ctc ggc aac tca gtt gat gta	340
Val Thr Ser Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val	
90 95 100	
tat cct gtt gga aga acg cgt gtt acc ctc aaa aga gat ggt gtg gtc	388
Tyr Pro Val Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val	
105 110 115	
ctt gat ttg gtg cct cct cct aca aaa gtt agc aac ttg att ttt gga	436
Leu Asp Leu Val Pro Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly	
120 125 130 135	
cga act tgg att gat tca cca gga gag atg atc ctg aca aat ctg act	484
Arg Thr Trp Ile Asp Ser Pro Gly Glu Met Ile Leu Thr Asn Leu Thr	
140 145 150	
aca ggg gac aaa gtg gtg ctg tat ttt caa cca tgt ggc tgg ttt gga	532
Thr Gly Asp Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly	
155 160 165	
gct ggt aga tat gaa gtg gat ggg tac gtg tat aat tct gct gac gag	580
Ala Gly Arg Tyr Glu Val Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu	

170	175	180	
cct aag ata ctg atg act gga aaa tgg aat gag gct atg aat tat caa			628
Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln			
185	190	195	
ggt tgt gac tca gag gga gaa cca ctt cca ggc act gag ttg aaa gag			676
Val Cys Asp Ser Glu Gly Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu			
200	205	210	215
att tgg aga gtt gct gat acc ccg aag aag gac aag ttc cag tac acg			724
Ile Trp Arg Val Ala Asp Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr			
220	225	230	
cat ttt gca cac aag att aac agc ttt gac act gct ccc aag aag ttg			772
His Phe Ala His Lys Ile Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu			
235	240	245	
ttg gca tct gac tct cgt cta cgt cct gat aga atg gcc ctt gag aag			820
Leu Ala Ser Asp Ser Arg Leu Arg Pro Asp Arg Met Ala Leu Glu Lys			
250	255	260	
ggt gac cta tcc aca tct ggt tat gag aag agc agt ttg gag gag agg			868
Gly Asp Leu Ser Thr Ser Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg			
265	270	275	
caa aga gct gag aag aga aac cga gag gcc aag ggc cat aag ttc act			916
Gln Arg Ala Glu Lys Arg Asn Arg Glu Ala Lys Gly His Lys Phe Thr			
280	285	290	295
cct aga tgg ttt gat tta aca gat gaa gta act cct acc cct tgg ggt			964
Pro Arg Trp Phe Asp Leu Thr Asp Glu Val Thr Pro Thr Pro Trp Gly			
300	305	310	
gac ttg gaa gtt tac caa tac aac ggt aaa tat acc caa cat tgt gct			1012
Asp Leu Glu Val Tyr Gln Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala			
315	320	325	
gcc gtt gat agt tct gag tgc att gaa gtg cct gac atc aga cca gaa			1060
Ala Val Asp Ser Ser Glu Cys Ile Glu Val Pro Asp Ile Arg Pro Glu			
330	335	340	
ttc aac cct tgg caa tat gat aat ttg gat gct gaa tag tgagcatcct			1109
Phe Asn Pro Trp Gln Tyr Asp Asn Leu Asp Ala Glu			
345	350	355	
tgtggaattc tttctatttt tttgaaatat cattttgtta ttaagtttgt aatgtaatct			1169
tgattggaat gcttgaaatt tggtttttgt tttgggttgt tttatcactg tagtatttga			1229
ttaattaata gtagctatgt tagttcatca gttcactttg catggataaa tgctagtaga			1289
gaaattaaag ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg			1349
ccgccg			1355

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 <213> Zea mays

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1 5 10 15	
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Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu	
20 25 30	
tcc tct ctc acc gca ccg ccg ttc atc ctc tca aca acc tct tta acc	144
Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr	
35 40 45	
gag tat tct gcg tac tgg tgc gaa cat cct gca ctc ttc gtt gcc ccc	192
Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro	
50 55 60	
gca cgt gag ccc gat cct gcg aag aga gcg ctc ttg gtg ctg aaa tgg	240
Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp	
65 70 75 80	
ttc ctg agc aca ttg cac caa cag tac tgc tct cga agc gaa aag cta	288
Phe Leu Ser Thr Leu His Gln Gln Tyr Cys Ser Arg Ser Glu Lys Leu	
85 90 95	
gga agc gag aaa aag ccg ctc aac ccg ttc ctg ggc gag ctt ttc ctg	336
Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Leu Phe Leu	
100 105 110	
ggc aag tgg ata gag gat gag gat gtg ggc gag aca agg ttg atc agc	384
Gly Lys Trp Ile Glu Asp Glu Asp Val Gly Glu Thr Arg Leu Ile Ser	
115 120 125	
gag caa gtc agc cat cat cct cct gcg aca gcg tat tca ata gtc aat	432
Glu Gln Val Ser His His Pro Pro Ala Thr Ala Tyr Ser Ile Val Asn	
130 135 140	
gag aaa cat gga gtt gag ctc caa gga tac aac gcc caa aaa gcc tcc	480
Glu Lys His Gly Val Glu Leu Gln Gly Tyr Asn Ala Gln Lys Ala Ser	
145 150 155 160	
ttc tcc agc acc atc caa gtg aaa caa cta ggc cac gcc tat ctc tcc	528
Phe Ser Ser Thr Ile Gln Val Lys Gln Leu Gly His Ala Tyr Leu Ser	
165 170 175	
tta acg ccg ccc gga aaa gat gca aac aac gaa gac gac cgt gag cac	576
Leu Thr Pro Pro Gly Lys Asp Ala Asn Asn Glu Asp Asp Arg Glu His	

180										185					190					
tac	ctc	atc	acc	ctc	ccc	aac	ctc	cac	atc	gaa	tcc	ctg	atc	tat	ggg	624				
Tyr	Leu	Ile	Thr	Leu	Pro	Asn	Leu	His	Ile	Glu	Ser	Leu	Ile	Tyr	Gly					
195						200					205									
aca	cca	ttc	gtt	gaa	ttg	gaa	aag	agt	tgc	aag	atc	gcc	agc	tca	acc	672				
Thr	Pro	Phe	Val	Glu	Leu	Glu	Lys	Ser	Cys	Lys	Ile	Ala	Ser	Ser	Thr					
210						215					220									
ggg	tac	atc	tct	aag	ata	gac	ttt	tcg	ggc	aaa	ggc	tgg	ctg	agc	gga	720				
Gly	Tyr	Ile	Ser	Lys	Ile	Asp	Phe	Ser	Gly	Lys	Gly	Trp	Leu	Ser	Gly					
225						230					235				240					
aag	aaa	aat	acc	ttc	tcc	gca	gtg	tta	tac	aag	gaa	agc	gac	ggc	gaa	768				
Lys	Lys	Asn	Thr	Phe	Ser	Ala	Val	Leu	Tyr	Lys	Glu	Ser	Asp	Gly	Glu					
245						250					255									
aaa	aat	cct	tta	tac	aca	gcc	gac	ggc	caa	tgg	tcg	agc	agc	ttc	act	816				
Lys	Asn	Pro	Leu	Tyr	Thr	Ala	Asp	Gly	Gln	Trp	Ser	Ser	Ser	Phe	Thr					
260						265					270									
atc	cgc	gat	gca	cgc	gct	aag	aag	gat	att	gag	acc	ttc	act	atc	agc	864				
Ile	Arg	Asp	Ala	Arg	Ala	Lys	Lys	Asp	Ile	Glu	Thr	Phe	Thr	Ile	Ser					
275						280					285									
aat	ctg	aaa	aca	acc	ccc	tta	aca	gtc	gcc	cct	ctt	gat	gaa	caa	gat	912				
Asn	Leu	Lys	Thr	Thr	Pro	Leu	Thr	Val	Ala	Pro	Leu	Asp	Glu	Gln	Asp					
290						295					300									
gaa	tgg	gaa	act	cgc	cgt	gca	tgg	cgc	gac	gta	gca	gcc	gcc	atc	gaa	960				
Glu	Trp	Glu	Thr	Arg	Arg	Ala	Trp	Arg	Asp	Val	Ala	Ala	Ala	Ile	Glu					
305						310					315				320					
cgc	ggc	gac	atg	gaa	gcc	aca	tca	aac	gcc	aaa	acc	aag	atc	gaa	gtc	1008				
Arg	Gly	Asp	Met	Glu	Ala	Thr	Ser	Asn	Ala	Lys	Thr	Lys	Ile	Glu	Val					
325						330					335									
gcg	caa	cga	gaa	ctc	cgc	aaa	aag	gag	aaa	gag	caa	ggc	gag	gag	tgg	1056				
Ala	Gln	Arg	Glu	Leu	Arg	Lys	Lys	Glu	Lys	Glu	Gln	Gly	Glu	Glu	Trp					
340						345					350									
gaa	cga	cga	ttc	ttc	aag	cga	gtc	aac	gaa	aag	gat	gaa	cct	acc	ttt	1104				
Glu	Arg	Arg	Phe	Phe	Lys	Arg	Val	Asn	Glu	Lys	Asp	Glu	Pro	Thr	Phe					
355						360					365									
atg	aga	ttg	gcg	gcg	atg	ctg	gat	ttg	acg	caa	ggc	atc	gaa	agt	gac	1152				
Met	Arg	Leu	Ala	Ala	Met	Leu	Asp	Leu	Thr	Gln	Gly	Ile	Glu	Ser	Asp					
370						375					380									
cgc	acc	ggg	gga	gtt	tgg	agg	ttt	gat	cct	tca	cgt	gct	gtg	gat	gcg	1200				
Arg	Thr	Gly	Gly	Val	Trp	Arg	Phe	Asp	Pro	Ser	Arg	Ala	Val	Asp	Ala					
385						390					395				400					
aat	ccg	ccg	tat	cac	aag	gtt	ggc	ggc	gaa	ggg	ttg	gga	ttg	taa		1245				
Asn	Pro	Pro	Tyr	His	Lys	Val	Gly	Gly	Glu	Gly	Leu	Gly	Leu							
405						410														

tttatttatg aggcattctt tatatttcat aaaaacaggg tctaggccgt ttattcatta 1305
aatgtgtatt aagtagcgct ttttctcgac cgttgagatt catggatgca agtgtaccta 1365
atagctcaat gcgagactct ttccaagcaa aaaaaaaaaa aaaaaaaggg cggccgc 1422

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acgacctttc agcctcacct gcagtatttc ttcaacaacg cctgtcgcta tgttaaataa 180
tagcaatcgt ttgtgatcac cattgtcgaa tttgacgcgc ttaaacaaaa accattgttt 240
tggcctcggt ccctgcattc aacaaaagag caaggatatgc cgtcaaacag tcgttaaaag 300
agaagggtta taaactatct tgttttgtac tttgctgtcc cggatccagt tgggtcttct 360
tttcaacctg tctgagtcgc atctttcttt ccctacttga agctccatat atctaagtca 420
tctaagtgtg tctgtctaga ttacaaacga aa atg tct caa cac gca agc tca 473
Met Ser Gln His Ala Ser Ser
1 5
tct tct tgg act tct ttt ttg aaa tcg ata agt tcg ttc aac gga gat 521
Ser Ser Trp Thr Ser Phe Leu Lys Ser Ile Ser Ser Phe Asn Gly Asp
10 15 20
cta tcg tct ttg tct gca cca ccg ttt att ctt tct ccc act tcc tta 569
Leu Ser Ser Leu Ser Ala Pro Pro Phe Ile Leu Ser Pro Thr Ser Leu
25 30 35
aca gag ttt tct cag tat tgg gct gaa cat cca gct tta ttt ctg gag 617
Thr Glu Phe Ser Gln Tyr Trp Ala Glu His Pro Ala Leu Phe Leu Glu
40 45 50 55
cct tcg ttg att gat ggt gaa aac tac aaa gat cac tgt ccc ttt gac 665
Pro Ser Leu Ile Asp Gly Glu Asn Tyr Lys Asp His Cys Pro Phe Asp
60 65 70
cca aat gtg gaa tca aag gaa gct gcg cag atg ttg gcg gtt gtt agg 713
Pro Asn Val Glu Ser Lys Glu Val Ala Gln Met Leu Ala Val Val Arg
75 80 85

tgg ttt att tct act ttg aga tct caa tac tgc tct aga agc gaa tcg	761
Trp Phe Ile Ser Thr Leu Arg Ser Gln Tyr Cys Ser Arg Ser Glu Ser	
90 95 100	
atg ggt tct gaa aag aag cct ttg aac cca ttc ttg ggt gag gta ttt	809
Met Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Val Phe	
105 110 115	
gtt gga aag tgg aaa aat gat gag cat cca gag ttt ggt gaa acg gtt	857
Val Gly Lys Trp Lys Asn Asp Glu His Pro Glu Phe Gly Glu Thr Val	
120 125 130 135	
ctt tta agt gag caa gtt tca cat cat cca cct atg aca gca ttt tcg	905
Leu Leu Ser Glu Gln Val Ser His His Pro Pro Met Thr Ala Phe Ser	
140 145 150	
att ttt aat gaa aaa aat gat gtt tct gtt caa gga tac aat caa att	953
Ile Phe Asn Glu Lys Asn Asp Val Ser Val Gln Gly Tyr Asn Gln Ile	
155 160 165	
aaa act ggt ttt acc aaa aca ttg acg cta acg gtc aaa cca tac ggg	1001
Lys Thr Gly Phe Thr Lys Thr Leu Thr Leu Thr Val Lys Pro Tyr Gly	
170 175 180	
cat gtc att ttg aag att aaa gat gag acc tac ctg att aca acc ccg	1049
His Val Ile Leu Lys Ile Lys Asp Glu Thr Tyr Leu Ile Thr Thr Pro	
185 190 195	
cct ttg cat atc gaa ggt att tta gtc gct tct cca ttt gtt gaa tta	1097
Pro Leu His Ile Glu Gly Ile Leu Val Ala Ser Pro Phe Val Glu Leu	
200 205 210 215	
gga ggc agg tca ttc ata cag tca tca aat ggt atg tta tgt gtt ata	1145
Gly Gly Arg Ser Phe Ile Gln Ser Ser Asn Gly Met Leu Cys Val Ile	
220 225 230	
gaa ttt tca gga agg ggg tat ttc aca ggg aag aag aac tcc ttt aag	1193
Glu Phe Ser Gly Arg Gly Tyr Phe Thr Gly Lys Lys Asn Ser Phe Lys	
235 240 245	
gca aga att tac aga agc cca caa gag cat agt cat aaa gaa aat gcg	1241
Ala Arg Ile Tyr Arg Ser Pro Gln Glu His Ser His Lys Glu Asn Ala	
250 255 260	
cta tac cta atc tct ggc caa tgg tca ggt gtt tca aca att ata aaa	1289
Leu Tyr Leu Ile Ser Gly Gln Trp Ser Gly Val Ser Thr Ile Ile Lys	
265 270 275	
aaa gac tcg caa gtt tca cat cag ttt tac gat tca tcg gaa act cct	1337
Lys Asp Ser Gln Val Ser His Gln Phe Tyr Asp Ser Ser Glu Thr Pro	
280 285 290 295	
act gaa cat tta tta gtt aag cca atc gaa gaa caa cat cct ctg gaa	1385
Thr Glu His Leu Leu Val Lys Pro Ile Glu Glu Gln His Pro Leu Glu	
300 305 310	
agt agg agg gca tgg aag gat gtg gca gaa gca atc aga caa gga aat	1433

Ser	Arg	Arg	Ala	Trp	Lys	Asp	Val	Ala	Glu	Ala	Ile	Arg	Gln	Gly	Asn	
			315					320					325			
att	agt	atg	ata	aaa	aag	act	aag	gaa	gaa	cta	gaa	aat	aag	caa	aga	1481
Ile	Ser	Met	Ile	Lys	Lys	Thr	Lys	Glu	Glu	Leu	Glu	Asn	Lys	Gln	Arg	
		330					335					340				
gcc	ttg	aga	gaa	caa	gaa	cgc	gta	aaa	ggg	gtg	gaa	tgg	caa	aga	aga	1529
Ala	Leu	Arg	Glu	Gln	Glu	Arg	Val	Lys	Gly	Val	Glu	Trp	Gln	Arg	Arg	
		345				350					355					
tgg	ttc	aaa	caa	gtg	gac	tac	atg	aat	gaa	aat	aca	tca	aat	gat	gta	1577
Trp	Phe	Lys	Gln	Val	Asp	Tyr	Met	Asn	Glu	Asn	Thr	Ser	Asn	Asp	Val	
360					365					370					375	
gag	aaa	gca	agt	gaa	gat	gat	gcc	ttt	agg	aaa	ttg	gcg	tcc	aaa	ctg	1625
Glu	Lys	Ala	Ser	Glu	Asp	Asp	Ala	Phe	Arg	Lys	Leu	Ala	Ser	Lys	Leu	
				380					385					390		
cag	ctt	tct	gtg	aaa	aat	gtg	cca	agt	ggg	aca	ttg	att	ggc	ggc	aaa	1673
Gln	Leu	Ser	Val	Lys	Asn	Val	Pro	Ser	Gly	Thr	Leu	Ile	Gly	Gly	Lys	
			395					400					405			
gat	gat	aag	aaa	gat	gtt	tca	acc	gca	ttg	cat	tgg	agg	ttt	gat	aaa	1721
Asp	Asp	Lys	Lys	Asp	Val	Ser	Thr	Ala	Leu	His	Trp	Arg	Phe	Asp	Lys	
		410					415					420				
aat	ttg	tgg	atg	agg	gag	aac	gaa	att	act	ata	taa	tataaatggt				1767
Asn	Leu	Trp	Met	Arg	Glu	Asn	Glu	Ile	Thr	Ile						
		425				430										
tttaaaagaa	taaatatcaa	aaattaatac	taattgatgt	ttgcattgct	ttttttaagg											1827
gaaaatgcaa	gcgtttttat	ttttaacttt	tggttttgaa	gctcgtaatt	caacaaaaaa											1887
gaattaaata	atcttcaagt	ccgataacaa	gatgtagaaa	aaacatccca	atgaagttac											1947
aagtcaaacc	attcactgag	aatttttgta	actcaccacc	gattttttgg	ataaaatgta											2007
ttcctgcaac	tttttttttt	gaagagataa	aaagaattga	atagaatatg	cagtaaaaaa											2067
agaatctcga	aaaaaaaagg	acaagaaatc	ttaactacca	tcaaacaatt	gaaaattga											2126
<210>	6															
<211>	266															
<212>	DNA															
<213>	Glycine max															
<400>	6															
ccattcaatc	caattcttgg	tgagacttat	gaaatgggta	accatgggtg	cattacattt											60
atatcagagc	aggtcagtca	tcaccctcca	atgagtgtctg	ggcatgtctga	aactgaacat											120
ttcacttatg	atgttacatc	aaaattgaaa	accaaatttc	tcggcaactc	agttgatgta											180

tatcctgttg gaagaacgcg tgttaccctc aaaagagatg gtgtggctct tgatttggtg 240
 cctcctccta caaaagttag caactt 266

<210> 7
 <211> 291
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (291)
 <223> unsure at all n locations

<400> 7
 tcacaacttc agtgctatgg tgaatcagtg tattgcacag gttcggactt gctaagcatg 60
 tgcaacaatg gtcagagtcc acttgatagg ttcatatctg tggtagcatg gtgcatactt 120
 accactcgcc ctgtgacttt tgggtgttgct ccttataatc ccantcttgg tgagacacac 180
 cncgtttcaa ggggaaatct taatgtgtta ttggagcaga tttcacatca ccctccagta 240
 actgctctcc atgcaacaga tgaganggaa aacattgaaa tgttatggtg c 291

<210> 8
 <211> 282
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (282)
 <223> unsure at all n locations

<400> 8
 gtgcccagng acaggtctgg tagctgaaat atcatacatg atcaagccat tgctttttta 60
 ggatttnnggg gaagtcgtaa attgatcaaa gggnaaatcc ttgactcatn attactcaaa 120
 ggtctctgcg aagttgatng tcattgggat aagatagtta gagtgaagga tacnaatagt 180
 gnagaagtga gagtgatata tgatgccaaa gaagccnttt caggtctcaa aactcctatt 240
 atcaaggatg tggagagtgt gtggccaacc gaatcagccc tt 282

<210> 9
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 9

gtaactccta ccccttgggg tgacttggaa gtttaccaat acaacggtaa atatacccaa 60
catttgctg ccgttgatag ttctgagtgc attgaagtgc ctgacatcag accagaattc 120
aacccttggc aatatgataa tttggatgct gaatagttag catccttgtg gaattctttc 180
tatttttttt aaatatcatt ttgttattaa gtttgtaatg taatcttgat tggaagcttg 240
aaatttggtt ttgtt 255

<210> 10
<211> 250
<212> DNA
<213> Glycine max

<400> 10

taactcctac cccttggggg gacttggaa tttaccaata caacggtaaa tatacccaac 60
attgtgctgc cgttgatagt tctgagtgc ttgaagtgcc tgacatcaga ccagaattca 120
acccttggca atatgataat ttggatgctg aatagttagc atccttgtgg aattctttct 180
atTTTTTTta aatatcattt tgttattaag tttgtaatgt aatcttgatt ggaatgcttg 240
aaatttggtt 250

<210> 11
<211> 283
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1) ... (283)
<223> unsure at all n locations

<400> 11

cgctgtgnt taatttccca aaatctcaac ttcaatgcta nggtgaatca gtgtactgca 60
catcttccaa cttgctaagc caatgcaaac agtgggcaga gtccactgga cagggtcaca 120
tcagtagtag catggagcat atctaccaca cgccccacat cttttggtgt tgctccttat 180
aattccactc ttggagagac ccaccatggt tccaagggca atctcaacgt cctagttgag 240
cagggtttcac tcaatcctcc agtatctgcc ctccatgcaa cag 283

<210> 12
<211> 255
<212> DNA
<213> Glycine max

<400> 12

ggagagtgtg tggccaaccg aatcagccct tgtttggagt gagttgagcc aagccattat 60

gaacaaagat tgggaaagag caagagaagc aaagcaagac gtggaagaaa gacagaggaa 120

tatgttgaga gacagagcca tgaaaggaga aacttggttt cctaagaatt ttaggggtgc 180

ttacagtaaa gacacatggg aatgggactg ttcaccaact cataaatggg tccctgaggc 240

cccatcata gctca 255

<210> 13

<211> 259

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1) ... (259)

<223> unsure at all n locations

<400> 13

agtcaaccct ccagtatctg ccctccatgc aacagatgag anggaaaaca ttgagatgat 60

atgggtccag caacctgttc caaagtttcg gggtagatct atgaagctca agtgcattgg 120

aaacgtcata tgtttctcca tgatttagga gcttcagctg acgtttacca tgcacttgag 180

ctgangctcc taaatcatgg agaaacatat gaaatgaatt gtcctcacct ttcaattaga 240

attcttccgg ttcctggga 259

<210> 14

<211> 355

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1) ... (355)

<223> unsure at all n locations

<400> 14

gcagcttttg ctgtgtctag ctatgcgtca actgaangtc gacaatgtaa accttttaat 60

cctttactcg gggagacctc cgaagctgac tatccagata aaggacttaa gtttttttct 120

gaaaagggtta gtcacatccc aatgattggt gcttgctact gtgagggaag gggatggaag 180

ttttgggcag attctaattt gaaaggaaaa ttctgggggc gttctatcca gttagatcct 240

gtgggtgtcc tcactctaca gtttgaggat ggtgaaacat ttcagtggag caaggtcacc 300
 acttcgattt acaatatcat actangtaaa atttattgtg accactacgg tacca 355

<210> 15
 <211> 279
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (279)
 <223> unsure at all n locations

<400> 15

cagattcggg ggaggaagct cagagaggaa gatggaaaca ggaggaaaga gatggttact 60
 ggaagatgat gcagaagtat attggctcgg atgtaacatc aatggtgaca ctaccagtta 120
 ttatatttga accaatgact atgattcaga aaattgctga gttgatggag tactcctact 180
 tgttgatca agcagatgaa tcagaggatc catacatgca gttagtttat gcaatggatg 240
 tacttnatgt atcatcacag catccatggg ccatatcgg 279

<210> 16
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 16

gttgatagtt ctgagtgcac agaggtgcct gacagcagaa cagaattcaa cccttggtcaa 60
 tatgataatt tggatgctga ataataagca tccttgtaga attctttcta ttctttgaac 120
 tatcattttg ttattaagtt tgcaatgtat ctgattggaa tgcttgaaat ttggttttgt 180
 ttttgggtaa a 191

<210> 17
 <211> 267
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (267)
 <223> unsure at all n locations

<400> 17

tcaactcctt ggggtgattt ggaaatctat caatataatg gtaaatacag tgaacatcga 60

gctgctgcag ataatcagg aagcattgat gatgttgatg ctaaatcaat tgaattcaat 120
ccatggcagt atggtaattt ggccacggaa tgaactagtt tcaatttctt tggttttgga 180
tgntncagtt agttcatgta actnttnncn antganacna gaanacaact ncctncnnca 240
ncnnanngtt agttgggcng tgtacgc 267

<210> 18
<211> 252
<212> DNA
<213> Glycine max
<400> 18

gtcttataga gctcccaatc tcctacatcg cttgttaagt ttactcaaga acgtgcggcc 60
aggatcagat ctacacact tccaactgcc agctgtggtt aacttcccaa aatctcaact 120
tcaatgctat ggtgaatcag tgtactgcac atcttcaaac ttgctgagca aatgcaacaa 180
tgggcagagt ccactggaca ggttcacatc agtagtagca tggagcatat ctaccacacg 240
ccccacatct tt 252

<210> 19
<211> 241
<212> DNA
<213> Glycine max
<400> 19

gtcagtcac accctccaat gaggctggg catgctgaaa ctgaacattt cacttatgat 60
gttacatcaa aattgaaaac caaatttctc ggcaactcag ttgatgtata tcctgttgga 120
agaacgcgtg ttaccctcaa aagagatggg gtggtccttg atttggtgcc tcctcctaca 180
aaagttagca acttgatttt tggacgaact tggattgatt caccaggaga gatgatcctg 240
a 241

<210> 20
<211> 262
<212> DNA
<213> Glycine max
<400> 20

tctcgagcct attcggtcgc aggccaaaga agccatttca ggtcactaaa ctctattat 60
catatgatgt ggagagtgtg tattcaaccg aatcagccct tgtttgaggt gagttgagcc 120

aagccattat gaacaaagat tgggaaagag caagagaagc aaagcaagac gtggaagaaa 180
gacagaggaa tatgttgaga gacagagcca tgacaggaga aactgggtgt ctaagaattt 240
agggtgtctt acagtaaaga ca 262

<210> 21
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<220>
<221> unsure
<222> (1) ... (463)
<223> unsure at all n locations

<400> 21

ggggaacccc ttccaggaac agagctgaaa gaggtgtggc atttggctga tgtccccaaa 60
aacgacaact ttcagtacac tcactttgct cacaagataa acagcttcga cacagcgcct 120
gctaagctct tggcttcaga ctcacgtatc cgtcctgata gatattccct tgagcagggt 180
gacctttcta aagctgggtc cgagaaacac agccttgagg agagacaaag ggccgaaaag 240
aggaccagag agacaaaggg acaaaagttc actccaagat ggttcgatct aacggatgag 300
atcacaccta ctccatgggg agatattgaa gtataccant acaacgggaa gtacaatgaa 360
caccgagaca cggcagagag ctcaagtagt gcctccaacg aaacgggact caaatccatc 420
gagtttaatc cttggcaata tggtaatatc tcaaccgaat gaa 463

<210> 22
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<400> 22

agtgaacctc tcccaggcac cgaactgaaa gaggtatgga aactcgctga tgtgccaaaag 60
gatgacaaat atcaatacac tcactttgct cacaagatta atagcttcga cactgccccg 120
aaaaagctgt tgccctctga ttcacggtta cgacctgata gatacgact tgagatgggc 180
gacatgtcca aatcaggcta tgagaagagc agcatggaag agagacagag agctgacaag 240
agaacccgag aacataaagg ccaagccttt actccaaaat ggttcgatgt aacggaagaa 300
gtcactgcta caccatgggg tgatctggaa gtttaccaat tcactggaaa gtactcagaa 360
catcgtgcag ctgcggataa ctctgaagat aagaccgac 399

<210> 23
 <211> 343
 <212> DNA
 <213> Arabidopsis thaliana

<400> 23

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acggacgcgt gggcaactcc aatgttacgg cgagatgggc tacagcttcg tcggtcagga 60
tctgcttggg gaatgcagcc gccgtgatct tcccattgaa cggctcaa at cagtggtgac 120
gtggaacatc tccacactcc gtccgggtgg ctttggcatg tctccgtaca actccgttct 180
cggcgagact caccacgtat cgaacgggtca catcaacgtc atcgccgaac aagtagtgca 240
tcctcctccg gtttccgctc ttcattgcgc tcacgaacaa gaaaatatcg acgtgacatg 300
gtgtcaatat ttcactccta aatttcgtgg tactcacgtg gac 343
```

<210> 24
 <211> 510
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> unsure
 <222> (1) ... (510)
 <223> unsure at all n locations

<400> 24

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gaaagctagc agatgtagaa caaagttttt tgtaactacg agagaataag aatacatttg 60
tttccaaaaa gatttgatct tttctgtctt ttggagcgat acatttaagt agacagatct 120
tggaattgcc atggggttgaa ttggatcgac ttaggggtcgg tggtatcttc agagtatatcc 180
gcagctgcac gatgttccga gtactttcca ttgaattggg aaacttccag atcaccccat 240
gggtgtagcag tgacttcttc cgttacatcg aaccattttg gagtaaaggc ttggcctttc 300
tcttcgcggg gtcncttttc aagtctctgt cncctttcca tgggtgntctt cccanagcct 360
gatttgnaca tggcggccan cccaaggng gatcaatcag gccgnaacgg ggaatcagnn 420
ggnaacagct tttcngggna ntgncgaagc aataaacnt ggggggcaaag gggggggatt 480
ggaaattggc aacccttggg naacaggggc 510
```

<210> 25
 <211> 282
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> unsure
 <222> (1) ... (282)
 <223> unsure at all n locations

 <400> 25

 gatacatttg gattcgaaaa gagcagccta gaggatagac aaagagctga gaagaaaagc 60
 agagaagaga aaggccaaaa ntttccncca aaatgggttn atgaaacana agangtcact 120
 cctacaccat ggggtgatct cgaagtttac caattcantg gaaagtactc ggtgcaccgn 180
 gccacagctg aaaactntga ggatacaacc gntgtgaagt tgncccaatt caacccttgg 240
 caattccaag atctctntgc ttaatccttt ggtgccattt gt 282

<210> 26
 <211> 380
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> unsure
 <222> (1) ... (380)
 <223> unsure at all n locations

<400> 26

 cgttggtggc ngcggaaagtg gtttcttcgc ctctcttgct tcgtcgatct ccaatttngg 60
 ntctgctatg accaaatcag ttaatggttt ggttccctat gagggacttg aagttatcaa 120
 tcctgaagga agtacagatg atgctgagga ggaagcaagc agaggaagat ggaagcaaga 180
 ggatcgagat ggctatttga agatgatgca gaagtacata ggatctgatg ttacatcaat 240
 ggtgaccctt cctgtgatta tttttgaacc aatgacaatg cttcagaaaa tggcggagtt 300
 gatggaatac tcgcatctgc tagacatggc agacaaaacc gaggaccctt atttncgcat 360
 ggtgtatgca tcatcgtggg 380

<210> 27
 <211> 359
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> unsure
 <222> (1) ... (359)
 <223> unsure at all n locations

<400> 27

ggtaatgaag gagttgaggt cataaatcca gaaggtggca aggaagatnc tgaagaggaa 60
 gctcagaaaag gaaggtggaa ggacgaggaa cgagatagtt actggaagat gatgcagaaa 120
 tatatagggtt eggatattac gtcaatggtg gctcttcttg ttgtnatatt tnancctatg 180
 actatnctcc anaagatggc tgagataatg gagtattctc atttnttgga tcaagcagat 240
 gaatgcngag atccatactt gctgttagta tacccttcat catgggggtat atctgtttac 300
 tatggccttc caacggacct tggaagcctt tnaatccnat tcttgggggg gnnanttna 359

<210> 28
 <211> 510
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> unsure
 <222> (1) ... (510)
 <223> unsure at all n locations

<400> 28

aaaagagaaa agtgtagcc ttggtcaat gatcaaagac antataggga aggntctcac 60
 aaaagtctgt cttcctgttt acttcaacga gccactttct tctttacaga aatgttttga 120
 ggatttgga tattcgtacc ttcttgaccg agcatttgaa tatggcaaaa ggggaaatag 180
 cctcatgagg atacttaatg tagctgcttt tgctgtatct gggatgcat caactgaagg 240
 aagaatttgc aaacctttta atccattggt aggtgaaaca tacgnggcag actatccaga 300
 caaaggcctt cgggtttttt ccaggaaagg tcagtcatca tcctatggtt gtcgnatgcc 360
 attgtgatgg caccnggtgg gaattcttgg gggacagcaa tcttnggggc aaattttggg 420
 gcgntctntt tagcttnacc cccttgggga tttnccctna aattnatgat ggggaanccn 480
 caggggggaa ggngcccacc atnncaaacc 510

<210> 29
 <211> 493
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> unsure
 <222> (1) ... (493)
 <223> unsure at all n locations

<400> 29

ccccnccng aaagnttccc ctgtttccgg nttnnccct ntgnncccc ttgggggggn 60

cctttcccaa tnggnnttgg gngngccccc ttggangggg ccgggggcttt aaagggccccc 120
 ncgnagggaa ggccagcctt tctcccaaatt ggtcgatgta ccggaggaag tctactgctac 180
 cccatgggggt gatctggaag tttcccaatt caatggaaag tactcggaac atcgtgcagc 240
 tgcggataac tctgaagata acaccgaccc taagtcgata caattcaacc catggcaatt 300
 ccaagatctg tctacttaaa tgtatcgctc caaaagacag aaaagatcaa atcttttttgg 360
 aaacaaatgt attcttattc tctcgtagtt acaaaaaact ttgttctaca tctgctagct 420
 ttcccattgc tttctctagt attagtgtac aacttctact gttttgtctt aaattcattc 480
 aaatctttct ttg 493

<210> 30
 <211> 1305
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 30

atgtctcaac acgcaagctc atcttcttgg acttcttttt tgaaatcgat aagttcgttc 60
 aacggagatc tatcgtcttt gtctgcacca ccgtttattc tttctccac ttccttaaca 120
 gagttttctc agtattgggc tgaacatcca gctttatttc tggagccttc gttgattgat 180
 ggtgaaaact acaaagatca ctgtcccttt gacccaaatg tggaatcaaa ggaagtggcg 240
 cagatgttgg cgggttgtag gtggtttatt tctactttga gatctcaata ctgctctaga 300
 agcgaatcga tgggttctga aaagaagcct ttgaacccat tcttgggtga ggtatttgtt 360
 ggaaagtgga aaaatgatga gcatccagag tttggtgaaa cggttctttt aagtgaacaa 420
 gtttcacatc atccacctat gacagcattt tcgattttta atgaaaaaaaa tgatgtttct 480
 gttcaaggat acaatcaaatt taaaactggt tttacaaaaa cattgacgct aacgggtcaaa 540
 ccatacgggc atgtcatttt gaagattaaa gatgagacct acctgattac aaccccgctt 600
 ttgcatatcg aaggatattt agtcgcttct ccatttggtg aattaggagg caggtcattc 660
 atacagtcac caaatggtat gttatgtgtt atagaatttt caggaagggg gtatttcaca 720
 gggaagaaga actcctttta ggcaagaatt tacagaagcc cacaagagca tagtcataaa 780
 gaaaatgcgc tatacctaatt ctctggccaa tggtcagggtg tttcaacaat tataaaaaaa 840
 gactcgcaag tttcacatca gttttacgat tcatcgaaa ctctactga acatttatta 900
 gttaagccaa tcgaagaaca acatcctctg gaaagtagga gggcatggaa ggatgtggca 960

gaagcaatca gacaaggaaa tattagtatg ataaaaaaga ctaaggaaga actagaaaat 1020
aagcaaagag ccttgagaga acaagaacgc gtaaaagggtg tggaatggca aagaagatgg 1080
ttcaaacaag tggactacat gaatgaaaat acatcaaagtg atgtagagaa agcaagtga 1140
gatgatgcct ttaggaaatt ggcgtccaaa ctgcagcttt ctgtgaaaaa tgtgccaaagt 1200
gggacattga ttggcggcaa agatgataag aaagatgttt caaccgcatt gcattggagg 1260
tttgataaaa atttgtggat gagggagaac gaaattacta tataa 1305

<210> 31
<211> 1200
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 31

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<210> 32
 <211> 309
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 32

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 <213> *Saccharomyces cerevisiae*

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<210> 34
<211> 2394
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<210> 35
 <211> 303
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 35

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 taa 303

<210> 36
 <211> 888
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 36

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<210> 37
 <211> 2121
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 38
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 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 38

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<400> 44

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 <213> Saccharomyces cerevisiae

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<210> 46
 <211> 309
 <212> DNA
 <213> Saccharomyces cerevisiae

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 <213> Saccharomyces cerevisiae

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 <211> 1557
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 48

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 <211> 2706
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 49

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 <211> 942
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 51
<211> 765
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 51

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<211> 1407
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 52

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<210> 53
<211> 1863
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 53

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<211> 474
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 54

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<210> 55
 <211> 897
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 55

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<210> 56
 <211> 2508
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 56

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 gctatcaatg atgacaattc tgtcattgct attaatctta acaccatgga caaattggaa 180
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<210> 57
<211> 651
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 57

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<210> 58
 <211> 345
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 58

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<210> 59
 <211> 552
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 59

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552

<210> 60
<211> 1599
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 60

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<210> 61
 <211> 1107
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 61
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<210> 62
 <211> 1647
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 62

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cctcgcgga agttagaatt ttgcattcat tattctacac gtaacgacta tgagcgcgaa 1560
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1647

<210> 63

<211> 1593

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 63

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gcagctgctt taaatgctga gacgaaagggt attgaaccag ttacagaaga tgaaaaaat 240
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<210> 64
<211> 651
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 64

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<210> 65
<211> 1665
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 65

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aagcgacaat gtgttgagga aaattacgat aaaaaatttt ctatgattaa aaaaaaacgt 180
cagcaaacat tacaaaagta caagcttagt cttctgaatc cgttggaaag ggcttttcgc 240
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<210> 66
 <211> 405
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 66

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acacatatat tggtaagctt ccaggaagac aattgggtat ttggattatc ggccgtattg 180
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<210> 67
<211> 336
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 67
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catatgaaaa acaacctcgt aactaaatgg ttgaatcggg tcttgcacac gtcgctaaag 180
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cccgttagtg attctcgatg ttattatatt ctttag 336

<210> 68
<211> 366
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 68
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attatacgtc aaaaaaactt gggaaggaca atgaattgta ataacgctga tgatatgttg 360
ttttga 366

<210> 69
<211> 597
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 69

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caacctccaa ttacatcgac ggatttttaca atcaatggta ttaagccatg gcaaggaagt 180
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<210> 70

<211> 1554

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 70

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gacgctgact ggcattctga tgaagtcacg ctcggaacaa attcttccaa agatgattct 180
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<210> 71
 <211> 315
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 71

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 agttatgaga gctga 315

<210> 72
 <211> 5619
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 72

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<210> 73
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<212> DNA
<213> *Saccharomyces cerevisiae*

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<212> DNA
<213> *Saccharomyces cerevisiae*
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<210> 75
<211> 939

<212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 75

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<210> 76
 <211> 588
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 76

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gttgatctgc ttcagtttcc ctggttaaat gctatcaagt atcggccac atctgtcaag 540
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<210> 77
<211> 2352
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 77

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 <211> 1617
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 78

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<210> 79
 <211> 1752
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 79

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<211> 5607
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 80

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<213> *Saccharomyces cerevisiae*

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 <213> *Saccharomyces cerevisiae*

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<210> 86
 <211> 1995
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 <213> *Saccharomyces cerevisiae*

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<211> 1971
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<400> 88

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 <211> 1776
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 97

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<400> 98

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 <211> 1593
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 99

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 <211> 1923
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 100

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<210> 101
 <211> 549
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 101

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<210> 102
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 102

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<211> 810
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 103

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<210> 104
<211> 1470
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 104

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1770

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<212> DNA
<213> *Saccharomyces cerevisiae*

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<210> 112
 <211> 375
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 112

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 agaatcaaaa agatcagtag agaaacgcct gtccagataa gtttctgggt gtatggaacc 180
 ttcttttctg gagcaatcac ttccggcagg aaagattcaa atggcttaaa caagtctaga 240
 acacggttgg aggacatttt caaagtaaag cgtgaaccag tgtcagtttt tctacttgct 300
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 gtgaggttga attga 375

<210> 113
 <211> 1098
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 113

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 tttgatccta agttaagaga tgctaaggag acctgggacg ctcaagttaa ggaagttgaa 1020
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 accaagaaga acaactga 1098

<210> 114
 <211> 1659
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 114

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 gatgatgtgg tcagagtagt cagccatagc gatgagagta ctgatgacga actttgtaat 180
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ctgttgatga gacaacagtt gatgagtacg catgaacaaa ttttgatctg cggtagattg 480
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<210> 115
 <211> 1722
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 115

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 ttgcgtgact ttgcaaaacc taatcccgtc gacacatttt ctaatcttga ttctgggtcat 180

tgtccttttg tcacaactcc aataaaatat gagtgcccag atggaaagag ttcttttttc 240
 cgaggagaca ctaaatttga aaccctgttc agtaatagaa aattctatga gttcaaagat 300
 aatttgaaaa ggggattgaa gaaaatacgt catgggagaa acggacatca aagcgaaaag 360
 agatgtccag ttgttgaaga aacaaaaaag tctgtgtcag ataatctgga caaaccagac 420
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 gaagagaatt tgcaaagctt agcgcttgca actttttact caattgaatc aatgaatcg 660
 cttgataggt cagattcgac acgtggcaca aaacgaagca ttcgcaatga ttccagtgat 720
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 gagtataaaa ggcagagaaa tgaagcagaa attatagact ga 1722

<210> 116
 <211> 618
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 116

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gaagtgtgcg acgcgtcggg tacgctagca tgcaccgctt cattgttcac aagcagcggc 180
ggctttttta gcaaaccacc tgtagttcca ctagattttc tacttctgct tctacttcta 240
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cgctctacct ttagtaataa tgctgtctat ataaggattt actcatacag tagtccaaaa 600
tatacctttc cgtgctaa 618

<210> 117

<211> 534

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 117

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tacgtaaagt ctttcccacc attcttgctt tggccgctgc aagatccgct cttcgtggtc 120
tcgttactaa gagtagatat agtcatttct atttgttacc acacacaaat atatcttcat 180
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cgattaccat tcaactcgaa cggatccgga caacagtcaa ataaactccg ggatcccaaa 420
aagggccgta cacacaaacc caagccgagc gaaaaacaca aaaaaataa aacagggaaa 480
aaaggagcgc aagagaaaac gcacaggagt aggagcagca gaaaggggaa ctaa 534

<210> 118

<211> 1833

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 118

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tccatggagg tttcgccacg gtcgtctacc acgtcgctgg tggagccagt ggagtcgact 180
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<210> 119
<211> 3363
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 119

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<210> 120
<211> 543
<212> DNA
<213> *Saccharomyces cerevisiae*

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taa 543

<210> 121
<211> 2808
<212> DNA
<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

<400> 122

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<210> 123
<211> 1527
<212> DNA

<213> Saccharomyces cerevisiae

<400> 123

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 <211> 2586
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 124

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 125

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<210> 126
 <211> 1482
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 126

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 <211> 1017
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 127

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 <211> 1386
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 128

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<211> 2280
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 129

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 130

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<210> 131
 <211> 1089
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 131

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 tcggaatact gtatatccag tgacgcagga acagagaaga tggatagcga cgaggagaag 180
 tcgttggcca atctgccgga gttgaaatac gctcccaagc tatccagcct ggtgaagcaa 240
 gagacgctca ccgagagctt gaaaagacca cacgaagatg agaaagaggc gatagatgag 300
 gccaaagaaga tgaaagtgcc gggagagaac gaggacgaaa gcaaggaaga ggaaaagagt 360
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accgaatga 1089

<210> 132
<211> 984
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 132
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aaagatagac tgacagcatt gcaaacggat ttaacttctc tgcatacagg tgataatggc 180
caatatgccc gccaaagtacg agatttggag gaagaaagag atctagagtt agtcagggtg 240
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cctttcagac taaggtctga ctaa

984

<210> 133
 <211> 996
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 133

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 attcgtcagg gatccttgaa tgggtcccaga ttaattacgt gtggacatgc catttcccaa 180
 actggtgggtc atggcgatct gagatctggt gccctacctg ctagtgcctt tgacagctgt 240
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 gccagagaag agtttagaag aggtgcagac tttattaaga ttatgggtgg tggaggtgtg 360
 gcctctccaa ctgacaaaat atcaaacaaa caattttgcg acgacgaaat aaaagcactt 420
 gtagatgtcg caaatagtta ccacacatac gtaacagcac acgcctacac tgcggaagcg 480
 atacaaaatt gtatcaagtt aggtgttaag ggtatcgaac acggaaactt attagatgaa 540
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 atactatttg tcatgaaaga gggaaggata tattga 996

<210> 134
 <211> 1215
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 134

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 tttgagagcc agatgtcgtg gctaagggtt caaacaaggc agtatctaac tagattcaca 180

gacaaccaat cagatttcgt acattcttta caaaaaaagc acagaacgcc ttttagagac 240
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atgcctgtgt ggcttgata ccgcgattta acacgggaca tgatctacgt tcttggttat 360
tcaatttatt tgagtggcta cttaaaggat tattggtgcc taccaaggcc aaaatcaccg 420
ccagttgaca gaatcacact aagtgaatac actacgaaag aatatggtgc acccagttca 480
cattctgcta acgctactgc ggtaagtcta ttattctttt ggagaatatg tttatctgac 540
acactggtat ggccaacaaa gcttctttta ctgagctctgg tgatatttta ctacttaacc 600
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gaagaagaag agtggtttatt gtacagcggg gtttccaaag tggaaatcgt cggaagggtt 1140
ctcatatacg caggtatacc tacaaccgtc tttttgctat gccagtttt tttcacttgg 1200
acaaacttaa ggtag 1215

<210> 135
<211> 429
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 135

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ggcaaatata acagccacgt gccacgggtt ttctctagcc tcatcagctc cgcatacggg 180
atccatttct taggcagccg agacacgaac ggtcccagtc catccaatct ttcctttctt 240
gcaacttcca actctttcga cgtaaacaca ggtgctgatt ctttcgagga aggggaggag 300
gaggaggagg aagaagacgt atatctcttt ctgctgcttc caatgattcc agcaacggta 360

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 attagttga 429

<210> 136
 <211> 1548
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 136

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 actggtgaca atgtaggtgg cgccctgaga gttcccgggtg ctatctccga gaaacagtta 180
 gaagaacttt taaatcaatt gaacgggtact tcagacgatc cagtgccata taccttcagc 240
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 ctatattctt cattaataaa accaggctat aacagtacag aagatcagat cacgctactg 360
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gacctccctg gtcataaaga cgaagtttat accgtcgact ggagtgtcga cggtaaaaga 1500
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<210> 137
<211> 1731
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 137

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<210> 138
 <211> 3570
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 138

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<210> 139
<211> 2082
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 139

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tttcagaagt cttctaccga acatatgttg atttcgcccg gtagggatgg ttcagtgcc 180
ttgaatgggt tgaaatcgtc gccggcagac ccgcacttgt ctgatgttaa ttctatcttg 240
gacaatcatc gtggcggtgg cgagacagct ttgacgtctg taaataatat tatcatggcc 300
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 <212> DNA

<213> Saccharomyces cerevisiae

<400> 144

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<211> 1422

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<213> Saccharomyces cerevisiae

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 <213> *Saccharomyces cerevisiae*

<400> 147

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<210> 148
 <211> 435
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 <213> *Saccharomyces cerevisiae*

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 <211> 351
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 149

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<210> 150
<211> 642
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 150

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<210> 151
<211> 3042
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 151

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<211> 933
<212> DNA
<213> *Saccharomyces cerevisiae*

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 153

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<210> 154
<211> 375
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 154

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 <211> 1644
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<400> 158

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 159

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<210> 162
<211> 2835
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 162

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<212> DNA
<213> *Saccharomyces cerevisiae*

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<210> 165
<211> 1464
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 165

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<210> 166

<211> 534

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 166

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<210> 167

<211> 1395

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 167

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<210> 168
 <211> 363
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 168

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<210> 169
 <211> 1845
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 169

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<210>

170

<211> 510
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 170

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<210> 171
 <211> 609
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 171

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<210> 172
 <211> 1947

<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 172

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<210> 173
 <211> 1461
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 173

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<210> 174
 <211> 1074
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 174

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<210> 175
 <211> 3306
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 175

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 <211> 2487
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 176

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 <211> 393
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 <213> *Saccharomyces cerevisiae*

<400> 177

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<210> 178
<211> 2304
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 178

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<210> 179
<211> 816
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 179

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<210> 180
 <211> 1965
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 180

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<210> 181
<211> 669
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 181

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<210> 182
<211> 1563
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 182

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 gaatccatgc tgaaaacatc gaaaacttcg gccaatccag gtagaaagtt ctggatttgc 1500
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<210> 183
 <211> 1770
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 183

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 <211> 2196
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 184

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gccgcccttg atagagttga aaacgcgctt gcttaa 2196

<210> 185
<211> 2790
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 185

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 <211> 2694
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 186

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 ggcttcactg agagaacaaa gacctactgt tttttgaacg atttcgtcag taattgcgta 360

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<210> 187
 <211> 978
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 187

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<210> 188
<211> 648
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 188

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aaaacaaagg ttgagaaaaa gaaagttcta agcaagatta cactgtaa 648

<210> 189
<211> 1980
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 189

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<210> 190
 <211> 1668
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 190

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 <211> 597
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 191

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 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 192

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<400> 194

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 <212> DNA
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 <211> 3276
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 196

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 197

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<210> 198
 <211> 324
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 198

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<210> 199
 <211> 987
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 199

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<210> 200
 <211> 2178
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 200

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<210> 201
 <211> 1533
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 201

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<210> 202
 <211> 1587
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 202

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<210> 203
 <211> 2787
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 203

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<211> 2931
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 206

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 <211> 1515
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 207

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<211> 1092
<212> DNA
<213> Saccharomyces cerevisiae

<400> 208

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<210> 209
<211> 1800
<212> DNA
<213> Saccharomyces cerevisiae

<400> 209

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 210

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<400> 212

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<211> 1815
<212> DNA

<213> Saccharomyces cerevisiae

<400> 213

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<211> 1203
<212> DNA
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tga

1203

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<211> 354
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 215

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<210> 216
<211> 1575
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 216

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<211> 1557
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 217

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 <211> 552
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 218

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<210> 219
 <211> 663
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 219

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 220

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 <211> 2682
 <212> DNA
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 <211> 1908
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 223

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<210> 224
<211> 3189
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 224

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<210> 225
 <211> 1077
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 225

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<210> 226
 <211> 1698
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 226

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gcgctagaaa aaagtgggtca tactgcaatg tcgctaactg ggtgtgacgg cactgaagtg 1980
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<211> 1137
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<400> 236

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 237

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 <212> DNA
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<210> 240
 <211> 858
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 240

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cagagaatga cctgggtga 858
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<210> 241
 <211> 4263
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 241

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aacttaccgc cacactatgc tcttttttta aaagctttta gaaggaaaat ttacattaat 360
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 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 242

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<211>      1425
<212>      DNA
<213>      Saccharomyces cerevisiae

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<210>      244
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<213>      Saccharomyces cerevisiae

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<400>      244

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agttataggg gtgccgaggt gccttataaa acccttttcc gttcctgtga tacttccatt 180
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taa 243

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<210> 245
 <211> 483
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 245

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aatttttatg agtacacaat aggcgaccaa accacatact tggagcctga atatatgggc 180
tatgaatact ccaatacaaa gaagttaggt tccgttagcg gacagaccaa tctctccata 240
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gatgaggatg gatatgatcc ttgcggacct ctttatgaaa ctaaaaaacg tgacactgaa 360
tactgtgacc caaatactgc ctattggagt tctgatcttt ttggtttcta tactactcca 420
actaatgtaa ctgtggaaat gacagggtac ttaatatgga gtatgggcaa ccgacgccgt 480
tga 483
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<210> 246
 <211> 2424
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 246

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ggccaaccac ccgattttcc tcattctctt gcaatagtca aatcgcaatc agatgctaac 180
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2424

<210> 247
<211> 1668
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 247

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gtagtgatta caaaccaaag tgccgccgat gaacacccta cagagatcaa gcacgatcaa 240
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<210> 248
 <211> 1956
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 248

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 aaattcacta agttggagtt tggcggtaga gactcttcac ccagcgccag atcagggtcat 600
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 cttaagggtta aacagttaaa gacgaagtca tttgagttat gtgaagaccg ttggtgggaa 1860
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 agagatacga ctactaaacc ttccaaaaga aggtaa 1956

<210> 249
 <211> 2088
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 249

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 gaaattaatt tgattattcc acatagaaag cactttttgt tgcggtcgat tcgattacaa 180
 tcagacattg cgcaaggaaa gaagtccacc aagcccactt taaagttgtc caatgcaaatt 240
 tcaaaatcct cgggggttaa agacattaaa cggctattcg tcttatctaa accggaatcc 300
 aagtacattg gtcttgccct ccttttaatc ctcatctcaa gttcagttag tatggctgta 360
 ccttcggtta tcggtaaatt attagacttg gcttccgaaa gtgacggcga agatgaagag 420
 ggctcaaaaa gcaataagtt atatggtttt acgaagaagc aatttttcac agcattagga 480
 gcagtattta taattggagc agttgctaatt gcaagcagaa tcatcatttt aaaggtcacc 540
 ggtgagagac tggtcgcaag attaagaacg agaacaatga aagctgcatt agatcaagat 600
 gccacatttt tagatactaa tcgtgtcggg gatttgatct caagattatc atctgatgca 660
 tctatagtgg ccaaactcggc cacacaaaac gtctctgatg gaacaagggc aattattcaa 720

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atcgccattc ctaatagtga actaaatgcg ctgcttgccg aacagcagga cgaggaagga 2040
aaagggggag tgatagattt ggacaatagt gttgcccggg aagtataa 2088

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<210>      250
<211>      2709
<212>      DNA
<213>      Saccharomyces cerevisiae

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<400>      250

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 atgccgacag tgaactccag taaactcaca gcaggaaatg ggaaacctga cacggagaag 180
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catgccaatt attactataa aagctgtcaa attgcgaaaa cattcattga tttggacaat 2640
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aacgggtga 2709

<210> 251
<211> 396
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 251

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gtcataaagc aattaacttt aggtctccac gtccaaagat gtcaggataa aggtcttact 180
tatcaagaag ccatggagag caaaaagaaa tacaagccaa gaagtaaata gttaagggtg 240
ttaaacaaac catcagtctt tccaaaggag aatcaaagt cttctaaaga taaatattgg 300
acttttgata aaaaagctgt tgggttatagg aagggtattc ataagggtgc caagtggacg 360
aagatttcca ttagaaaggc cccaaaattc ttttga 396

<210> 252

<211> 765
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 252

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atggaaatag ttgtgaaaag acagtacgac aacaaggaga tatatagtag taaaaagggg 180
ggcgcctatt caaatgagga tgaagatgcc aacttcctaa aaggagagga ggagcttatt 240
gtggttggtta cagactctaa tgcccaatca atctctaacc agctggccac gcaagcggaa 300
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<210> 253
 <211> 363
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 253

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tttctaacag acgctttact taaccttata tatactttat ttttttcac gagcgtgttc 180
aattggacaa ggtgccacct tttcgacct tcggttatta tgttacacag ttttcatgag 240
gatggcgctt tgactaactt aattagtcac ttgccaacca ccacagttcc ccaatatcga 300
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taa 363
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<210> 254
 <211> 1845

<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 254

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<210> 260
 <211> 573
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 260

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<210> 261
 <211> 2580
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 261

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<210> 262
 <211> 1572
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 262

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<211> 2169
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 263

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<210> 264
 <211> 3402
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 264

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<211> 1815
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 265

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<210> 266
<211> 1725
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 266

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 267

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<210> 268

<211> 2358
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 268

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<212>      DNA
<213>      Saccharomyces cerevisiae

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<400>

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<211> 1914
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 272

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 <211> 2892
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 273

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<211> 2052
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 278

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 <213> *Saccharomyces cerevisiae*

<400> 279

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 <213> *Saccharomyces cerevisiae*

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<212> DNA

<213> Saccharomyces cerevisiae

<400> 281

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 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 282

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 <211> 987
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 283

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<210> 284

<211> 1368

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 284

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 <212> DNA
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 <400> 285

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<210> 286
 <211> 2067
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 286

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 <212> DNA
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<400> 294

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<210> 295

<211> 3351
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 <213> *Saccharomyces cerevisiae*
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 296

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 298

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<210> 299

<211> 2340

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 299

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<210> 300

<211> 612
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 300

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<210> 301
 <211> 3135
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 301

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<211> 1131
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 302

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<211> 3252
<212> DNA
<213> *Saccharomyces cerevisiae*

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 304

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 <211> 771
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 305

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 <211> 390
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 306

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<210> 307
 <211> 2067
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 307

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<210> 308
 <211> 2196
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 308

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<210> 309
 <211> 1587
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 309

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<210> 310
 <211> 435
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 311
 <211> 3270
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 311

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<210> 312
 <211> 351
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 312

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 tggctaaggc aattgttttt atcagggtgtt tccctattta tagagtattc caaatcgctg 300
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<210> 313
 <211> 1146
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 313

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<210> 314
 <211> 609
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 314

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 gctggagttt catatggtac ctttgggtac tgtaaaactt tgaattcttt ttctgctct 180
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<210> 315
 <211> 345

<212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 315

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<210> 316
 <211> 675
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 316

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 <213> *Saccharomyces cerevisiae*

<400> 317

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 319

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 <212> DNA
 <213> *Saccharomyces cerevisiae*
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 <213> *Saccharomyces cerevisiae*
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 322

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 <211> 1023
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 324
 <211> 336
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 324

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 325

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<211> 2250
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 326

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 <211> 375
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 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 329
 <211> 1302

<212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 329

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<210> 330
 <211> 369
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 330

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 331

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<210> 332
<211> 3108
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 332

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<210> 333
 <211> 1923
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 333

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<211> 2667

<212> DNA

<213> *Saccharomyces cerevisiae*

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2667

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<211> 3591
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 336

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 337

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 <212> DNA
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 <213> *Saccharomyces cerevisiae*

<400> 339

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<210> 345
<211> 1050
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 345

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<210> 346
<211> 2523
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 346

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<210> 347
 <211> 3537
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 347

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 <211> 1020
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 348

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<210> 349
 <211> 1050
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 349

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<210> 350
<211> 2553
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 350

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<210> 351
 <211> 3273
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 351

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 <213> *Saccharomyces cerevisiae*

<400> 357

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<212> DNA
<213> *Saccharomyces cerevisiae*

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<211> 1401
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 359

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<210> 360
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

 <400> 360

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 361

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 362

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<212> DNA
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<400> 363

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 <211> 1179
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 365
 <211> 2250
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 365

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<210> 366
 <211> 2646
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 366

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 <211> 1149
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 367

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<210> 368
 <211> 3147
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 369
 <211> 2205
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 369

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<212> DNA
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 <211> 1476
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 377

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<210> 378
<211> 1755
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 378

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 <211> 2205
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 379

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<210> 380
<211> 3399
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 380

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<210> 381
 <211> 1986
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 382

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 <211> 1503
 <212> DNA
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 taa 1503

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 <211> 369
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <211> 1785
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 387
 <211> 411
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 387

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 <211> 2433
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 388

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 <211> 2589
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 389

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 396

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 397

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 <211> 1107
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 398

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 399

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 <211> 858
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 401
 <211> 951
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 401

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<210> 402
 <211> 1722
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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1722

<210> 403

<211> 1008

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 403

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<210> 404

<211> 2964

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 404

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<213> *Saccharomyces cerevisiae*

<400> 405

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 <211> 777
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<400> 407

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 <211> 3651
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 408

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<211> 1254

<212> DNA

<213> *Saccharomyces cerevisiae*

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<210> 411
 <211> 1491
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 411

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<210> 412
<211> 1431
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 412

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<210> 413
<211> 1290
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 413
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<210> 414
 <211> 1023
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 414

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<210> 415
 <211> 2535

<212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 415

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 <211> 2259
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 416

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<211> 2139
<212> DNA
<213> *Saccharomyces cerevisiae*

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 <211> 336
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 418

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<210> 419
 <211> 2460
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 419

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<211> 1668
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 420

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<210> 421
 <211> 2493
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 421

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<211> 1731
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 422

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<210> 423
 <211> 2199
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 423

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 <211> 936
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 424

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 <211> 3405
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 425

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